



\*\*FILE\*\*ID\*\*SATSSS30

H 6

(1)	55	DECLARATIONS
(1)	93	CONDITION TABLES
(1)	130	TM SETUP, TM CLEANUP
(1)	193	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	263	FORM CONDS
(1)	356	VERIFY
(1)	488	VFY_CLEANUP

0000 1 .TITLE SATSSS30,SATS SYSTEM SERVICE TESTS SCRELOG,\$DELLOG (SUCC S.C.)  
0000 2 .IDENT 'V04-000'  
0000 3 :\*\*\*\*\*  
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0000 5 :  
0000 6 :  
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0000 27 :  
0000 28 :  
0000 29 :  
0000 30 :++ FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)  
0000 31 :  
0000 32 : ABSTRACT:  
0000 33 :  
0000 34 : THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED  
0000 35 : WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS30 TO TEST SUCCESSFUL  
0000 36 : OPERATION OF THE SCRELOG AND \$DELLOG SYSTEM SERVICES. THE SERVICES ARE INVOKED  
0000 37 : UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY  
0000 38 : SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT  
0000 39 : OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY  
0000 40 : CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS  
0000 41 : AND EXPECTED FUNCTIONALITY PERFORMED.  
0000 42 :  
0000 43 : ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE.  
0000 44 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.  
0000 45 :  
0000 46 : AUTHOR: THOMAS L. CAFARELLA. CREATION DATE: MAR, 1977  
0000 47 :  
0000 48 : MODIFIED BY:  
0000 49 :  
0000 50 : VERSION 1.50 : 25-MAY-79  
0000 51 :  
0000 52 : 01 LDJ 08/17/79 Added code to test for \$DELLOG system service.  
0000 53 :--

0000 55 .SBTTL DECLARATIONS  
0000 56 :  
0000 57 : INCLUDE FILES:  
0000 58 :  
0000 59 : SPRVDEF : PRIVILEGE BIT DEFINITIONS  
0000 60 : SPHDDEF : PROCESS HEADER OFFSETS  
0000 61 : \$LOGDEF : LOGICAL NAME TABLE DEFINITIONS  
0000 62 : SPSLDEF : PROCESSOR STATUS LONGWORD DEFINITIONS  
0000 63 :  
0000 64 : MACROS:  
0000 65 :  
0000 66 :  
0000 67 : EQUATED SYMBOLS:  
0000 68 :  
0000 69 :  
0000 70 : OWN STORAGE:  
0000 71 :

00000000	73	.PSECT RODATA,RD,NOWRT,NOEXE,LONG	
0000	74	TEST_MOD_NAME:: STRING C:<SATSSS30>	: TEST MODULE NAME
0009	75	TEST_MOD_NAME_D: STRING I,<SATSSS30>	: TEST MODULE NAME DESCRIPTOR
0019	76	MSG1_INP_CTL: STRING I,< SSCLN!4ZW: CONDITIONS:>	
0039	77		: FAO CTL STRING FOR MSG1 IN SUCOMMON.MAR
0039	78	MSG3_ERR_CTL:: STRING I,< *SSCLN!4ZW: !AS>	
0051	79		: FAO CTL STRING FOR MSG3 IN SUCOMMON.MAR
00000002	80	EQLNAM: .LONG 2	: EQLNAM ARGUMENT FOR
00000000	81	.ADDRESS TESTNUM	: ... SUBJECT SYSTEM SERVICE
00000004	82	LOGNAM: .LONG 4	: LOGNAM ARGUMENT FOR
00000096	83	.ADDRESS COMTN	: ... SUBJECT SYSTEM SERVICE

SATSSS30  
V04-000

M 6  
SATS SYSTEM SERVICE TESTS SCRELOG,\$DELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00  
DECLARATIONS 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1 Page 4  
(1)

00000000	85	PSECT	RWDATA,RD,WRT,NOEXE,LONG	
00000008 0000	86	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
0000000A 0008	87	RSLLEN_TLN:	.BLKW 1	: RSLLEN ARGUMENT FOR STRNLOG
0000000A	88	RSLBUF_TLN:	STRING 0,130	: RSLBUF ARGUMENT FOR STRNLOG
00000095 0094	89	TABLE_TLN:	.BLKB 1	: TABLE ARGUMENT FOR STRNLOG
00000096 0095	90	ACMODE_TLN:	.BLKB 1	: ACMODE ARGUMENT FOR STRNLOG
00000000 0096	91	COMTN:	.LONG 0	: COMPLEMENTED TESTNUM (USED AS LOGNAME)

009A 93 : .SBTTL CONDITION TABLES  
009A 94 :  
009A 95 : \*\*\*\*\* CONDITION TABLES FOR CRELOG SYSTEM SERVICE \*\*\*\*\*  
009A 96 :  
009A 97 : COND 1, LONG, <TBLFLG>, -  
009A 98 : <SYSTEM TABLE>, -  
009A 99 : <GROUP TABLE>, -  
009A 100 : <PROCESS TABLE>, -  
009A 101 :  
00000000 00D5 102 : .LONG LOGSC\_SYSTEM  
00000001 00D9 103 : .LONG LOGSC\_GROUP  
00000002 00DD 104 : .LONG LOGSC\_PROCESS  
00E1 105 :  
00E1 106 : COND 2, NOTARG, <PREVIOUS STATUS OF LOGICAL NAME>, -  
00E1 107 : <ALREADY EXISTS>, -  
00E1 108 : <NON-EXISTENT>, -  
00E1 109 :  
00000000' 0126 110 : .LONG SSS\_SUPERSEDE  
00000000' 012A 111 : .LONG SSS\_NORMAL  
012E 112 :  
012E 113 : COND 3, LONG, <ACMODE>, -  
012E 114 : <KERNEL>, -  
012E 115 : <EXEC>, -  
012E 116 : <SUPER>, -  
012E 117 : <USER>, -  
012E 118 :  
00000000 0150 119 : .LONG PSLSC\_KERNEL  
00000001 0161 120 : .LONG PSLSC\_EXEC  
00000002 0165 121 : .LONG PSLSC\_SUPER  
00000003 0169 122 : .LONG PSLSC\_USER  
016D 123 :  
016D 124 : COND 4, NULL  
016E 125 :  
016E 126 : COND 5, NULL  
016F 127 :  
00000000 128 : .PSECT SATSSS30.RD,WRT,EXE

0000 130 .SBTTL TM\_SETUP, TM\_CLEANUP  
 0000 131 :++  
 0000 132 : FUNCTIONAL DESCRIPTION:  
 0000 133 :  
 0000 134 : TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM  
 0000 135 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF  
 0000 136 : TEST MODULE EXECUTION.  
 0000 137 :  
 0000 138 : CALLING SEQUENCE:  
 0000 139 :  
 0000 140 : BSBW TM\_SETUP BSBW TM\_CLEANUP  
 0000 141 :  
 0000 142 : INPUT PARAMETERS:  
 0000 143 :  
 0000 144 : NONE  
 0000 145 :  
 0000 146 : IMPLICIT INPUTS:  
 0000 147 :  
 0000 148 : NONE  
 0000 149 :  
 0000 150 : OUTPUT PARAMETERS:  
 0000 151 :  
 0000 152 : NONE  
 0000 153 :  
 0000 154 : IMPLICIT OUTPUTS:  
 0000 155 :  
 0000 156 : TM\_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;  
 0000 157 : ALL PRIVILEGES ACQUIRED.  
 0000 158 :  
 0000 159 : COMPLETION CODES:  
 0000 160 :  
 0000 161 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.  
 0000 162 :  
 0000 163 : SIDE EFFECTS:  
 0000 164 :  
 0000 165 : SS CHECK AND ERR\_EXIT MACROS CAUSE PREMATURE EXIT  
 0000 166 : (VIA RSB) IF ERROR ENCOUNTERED.  
 0000 167 :  
 0000 168 :--  
 0000 169 :  
 0000 170 :  
 0000 171 :  
 0000 172 : TM\_SETUP::  
 52 D4 0000 173 CLRL R2 : INITIALIZE  
 53 D4 0002 174 CLRL R3 : .. CONDITION  
 54 D4 0004 175 CLRL R4 : .... TABLE  
 55 D4 0006 176 CLRL R5 : ..... INDEX  
 56 D4 0008 177 CLRL R6 : ..... REGISTERS  
 FFF3' 30 000A 178 BSBW MOD\_MSG PRINT : PRINT TEST MODULE BEGIN MSG  
 03 00 00000000'EF DE 000D 179 MOVAL TEST\_MOD\_SUCC\_TMD\_ADDR : ASSUME END MSG WILL SHOW SUCCESS  
 00000000'8F F0 0018 180 INSV #SUCCESS,#0,#3,MOD\_MSG\_CODE ; ADJUST STATUS CODE FOR SUCCESS  
 00000000'EF 0020 :  
 59 00000000'9F D0 0048 181 MODE TO,\$\$\_KRNLL : KERNEL MODE TO ACCESS PHD  
 00000000'EF 69 DE 004F 182 MOVL #CTL\$GL\_PHD,R9 : GET PROCESS HEADER ADDRESS  
 00056 183 MOVAL PHD\$Q\_PRIVMSK(R9),PRIVMASK : GET PRIV MASK ADDRESS  
 00057 184 MODE FROM,\$\$ : BACK TO USER MODE  
 00057 185 PRIV ADD,ALL ; GET ALL PRIVILEGES

SATSSS30  
V04-000

C 7  
SATS SYSTEM SERVICE TESTS \$CRELOG,\$DELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00  
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(1)

	0077	186	SSETPRN_S TEST MOD_NAME_D	: SET PROCESS NAME	
	0084	187	SS CHECK NORMAL	: CHECK STATUS CODE RETURNED FROM SETPRN	
05	0082	188	RSB	: RETURN TO MAIN ROUTINE	
	0083	189	TM_CLEANUP::		
FF4A'	30	0083	190	BSBW MOD_MSG_PRINT	: PRINT TEST MODULE END MSG
	05	0086	191	RSB	: RETURN TO MAIN ROUTINE

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0087 193 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP

0087 194 ++ FUNCTIONAL DESCRIPTION:

0087 197 CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED  
0087 198 BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW  
0087 199 CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON  
0087 200 ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE  
0087 201 CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED  
0087 202 UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES,  
0087 203 ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO  
0087 204 OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO  
0087 205 VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE  
0087 206 (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.

0087 207 CALLING SEQUENCE:

0087 209  
0087 210 BSBW CONDX BSBW CONDX\_CLEANUP  
0087 211 WHERE X = 1,2,3,4,5

0087 212 INPUT PARAMETERS:

0087 213  
0087 214 CONFLICT = 0

0087 215 IMPLICIT INPUTS:

0087 216  
0087 217 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES  
0087 218 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

0087 219 OUTPUT PARAMETERS:

0087 220  
0087 221 CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.

0087 222 IMPLICIT OUTPUTS:

0087 223  
0087 224 R2,3,4,5,6 PRESERVED

0087 225 COMPLETION CODES:

0087 226  
0087 227 NONE

0087 228 SIDE EFFECTS:

0087 229  
0087 230 NONE

0087 231  
0087 232 --

0087 233  
0087 234

0087 235  
0087 236 COND1::: RSB

0087 237  
0087 238 COND1\_CLEANUP::: RSB

0087 239  
0087 240 COND2::: RSB

0087 241  
0087 242 COND2\_CLEANUP::: RSB

05 0087 243 ; RETURN TO MAIN ROUTINE  
0088 244 COND1\_CLEANUP::: RSB  
05 0088 245 ; RETURN TO MAIN ROUTINE  
0089 246 COND2::: RSB  
05 0089 247 ; RETURN TO MAIN ROUTINE  
008A 248 COND2\_CLEANUP::: RSB  
05 008A 249 ; RETURN TO MAIN ROUTINE

05	00BB	250	COND3::	
	00BB	251	RSB	: RETURN TO MAIN ROUTINE
05	00BC	252	COND3_CLEANUP::	
	00BC	253	RSB	: RETURN TO MAIN ROUTINE
05	00BD	254	COND4::	
	00BD	255	RSB	: RETURN TO MAIN ROUTINE
05	00BE	256	COND4_CLEANUP::	
	00BE	257	RSB	: RETURN TO MAIN ROUTINE
05	00BF	258	COND5::	
	00BF	259	RSB	: RETURN TO MAIN ROUTINE
05	00C0	260	COND5_CLEANUP::	
	00C0	261	RSB	: RETURN TO MAIN ROUTINE

00C1 263 .SBTTL FORM\_CONDS  
 00C1 264 ++  
 00C1 265 FUNCTIONAL DESCRIPTION:  
 00C1 266 FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT  
 00C1 267 THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.  
 00C1 268  
 00C1 269  
 00C1 270 CALLING SEQUENCE:  
 00C1 271  
 00C1 272 BSBW FORM\_CONDS  
 00C1 273  
 00C1 274 INPUT PARAMETERS:  
 00C1 275  
 00C1 276  
 00C1 277  
 00C1 278  
 00C1 279  
 00C1 280  
 00C1 281 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES  
 00C1 282 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.  
 00C1 283 FOR X = 1,2,3,4,5 :  
 00C1 284 CONDX\_T - TITLE TEXT FOR CONDX TABLE  
 00C1 285 CONDX\_TAB - ELEMENT TEXT FOR CONDX TABLE  
 00C1 286 CONDX\_C - CONTEXT OF THE CONDX TABLE  
 00C1 287 CONDX\_E - DATA ELEMENTS OF THE CONDX TABLE  
 00C1 288 OUTPUT PARAMETERS:  
 00C1 289  
 00C1 290  
 00C1 291  
 00C1 292 IMPLICIT OUTPUTS:  
 00C1 293  
 00C1 294  
 00C1 295  
 00C1 296 COMPLETION CODES:  
 00C1 297  
 00C1 298  
 00C1 299  
 00C1 300 SIDE EFFECTS:  
 00C1 301  
 00C1 302  
 00C1 303  
 00C1 304  
 00C1 305  
 00C1 306  
 00C1 307  
 00C1 308 FORM\_CONDS:::  
 00C1 309 \$FAO\_S MSG1\_INP\_CTL,FAO\_LEN,FAO\_DESC,TESTNUM  
 00E0 310 ; FORMAT CONDITIONS HEADER MSG  
 14 FF1D' 30 00E0 311 BSBW OUTPUT\_MSG  
 06 91 00E3 312 CMPB #COND1\_C,#NULL ; AND PRINT IT  
 03 12 00E6 313 BNEQU 10S ; IS CONDITION 1 NULL ?  
 00D7 31 00E8 314 BRW FORM\_CONDSX ; NO -- CONTINUE  
 00EB 315 10S: ; YES -- SUBROUTINE IS FINISHED  
 MOVAL COND1\_T,MSG\_A  
 MOVL COND1\_TAB[R2],MSG\_B  
 MOVB #COND1\_C,MSG\_C[TXT]  
 MOV\_VAL COND1\_C,COND1\_E[R2],MSG\_DATA1 ; SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO  
 ; SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO  
 ; SAVE CONDITION 1 CONTEXT FOR FAO  
 ; GIVE COND 1 DATA VALUE TO FAO

14	FF1D'	30	00E0	311
06	91	00E3	312	BSBW OUTPUT_MSG
03	12	00E6	313	CMPB #COND1_C,#NULL
00D7	31	00E8	314	BNEQU 10S
00000000'EF	0000009A'EF	DE	00EB	315
00000000'EF	000000A2'EF42	DD	00F6	316
00000000'EF	04	90	0102	317
			0109	318

10S:

319

14 FEE8' 30 0115 320 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 1 MSG  
 00 91 0118 321 CMPB #COND2\_C,#NULL : IS CONDITION 2 NULL ?  
 03 12 011B 322 BNEQU 208 NO -- CONTINUE  
 00A2 31 011D 323 BRW FORM\_COND\$X YES -- SUBROUTINE IS FINISHED

00000000'EF 000000E1'EF DE 0120 324 208:  
 00000000'EF 00000102'EF43 DO 012B 325 MOVAL COND2\_T,MSG\_A : SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO  
 00000000'EF 00 90 0137 326 MOVL COND2\_T,AB[R3],MSG\_B : SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO  
 14 FEBF' 30 013E 327 MOVB #COND2\_C,MSG\_TXT : SAVE CONDITION 2 CONTEXT FOR FAO  
 04 91 0141 328 MOV VAL COND2\_C,[COND2\_E[R3],MSG\_DATA1] ; GIVE COND 2 DATA VALUE TO FAO  
 03 12 0144 329 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 2 MSG  
 0079 31 0146 330 CMPB #COND3\_C,#NULL : IS CONDITION 3 NULL ?  
 0079 31 0146 331 BNEQU 308 NO -- CONTINUE  
 0079 31 0146 332 BRW FORM\_COND\$X YES -- SUBROUTINE IS FINISHED

00000000'EF 0000012E'EF DE 0149 333 308:  
 00000000'EF 00000136'EF44 DO 0154 334 MOVAL COND3\_T,MSG\_A : SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO  
 00000000'EF 04 90 0160 335 MOVL COND3\_T,AB[R4],MSG\_B : SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO  
 14 FE8A' 30 0173 336 MOVB #COND3\_C,MSG\_TXT : SAVE CONDITION 3 CONTEXT FOR FAO  
 14 14 91 0176 337 MOV VAL COND3\_C,[COND3\_E[R4],MSG\_DATA1] ; GIVE COND 3 DATA VALUE TO FAO  
 47 13 0179 338 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 3 MSG  
 14 14 91 0179 339 CMPB #COND4\_C,#NULL : IS CONDITION 4 NULL ?  
 00000000'EF 0000016D'EF DE 0178 340 BEQLU FORM\_COND\$X YES -- SUBROUTINE IS FINISHED  
 00000000'EF 0000016D'EF45 DO 0186 341 MOVAL COND4\_T,MSG\_A : SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO  
 00000000'EF 14 90 0192 342 MOVL COND4\_T,AB[R5],MSG\_B : SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO  
 14 FE64' 30 0199 343 MOVB #COND4\_C,MSG\_TXT : SAVE CONDITION 4 CONTEXT FOR FAO  
 14 14 91 019C 344 MOV VAL COND4\_C,[COND4\_E[R5],MSG\_DATA1] ; GIVE COND 4 DATA VALUE TO FAO  
 21 13 019F 345 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 4 MSG  
 14 14 91 019C 346 CMPB #COND5\_C,#NULL : IS CONDITION 5 NULL ?  
 00000000'EF 0000016E'EF DE 01A1 347 BEQLU FORM\_COND\$X YES -- SUBROUTINE IS FINISHED  
 00000000'EF 0000016E'EF46 DO 01AC 348 MOVAL COND5\_T,MSG\_A : SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO  
 00000000'EF 14 90 01B8 349 MOVL COND5\_T,AB[R6],MSG\_B : SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO  
 FE3E' 30 01BF 350 MOVB #COND5\_C,MSG\_TXT : SAVE CONDITION 5 CONTEXT FOR FAO  
 FE3E' 30 01BF 351 MOV VAL COND5\_C,[COND5\_E[R6],MSG\_DATA1] ; GIVE COND 5 DATA VALUE TO FAO  
 01C2 352 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 5 MSG  
 05 01C2 353 FORM\_COND\$X:  
 RSB : RETURN TO CALLER

01C3 356 .SBTTL VERIFY  
 01C3 357 ++  
 01C3 358 FUNCTIONAL DESCRIPTION:  
 01C3 359  
 01C3 360 VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION  
 01C3 361 TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR  
 01C3 362 COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS  
 01C3 363 SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE  
 01C3 364 (SCRELOG). THEN THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED  
 01C3 365 BY EXAMINING THE STATUS CODE RETURNED. THE VALUES FOR RETURN ARGUMENTS  
 01C3 366 AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF  
 01C3 367 COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN  
 01C3 368 ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,  
 01C3 369 THROUGH THE SS CHECK MACRO). ERR EXIT SETS EFLAG TO NON-ZERO.  
 01C3 370 PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.  
 01C3 371 WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED.  
 01C3 372 AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.  
 01C3 373  
 01C3 374 CALLING SEQUENCE:  
 01C3 375 BSBW VERIFY  
 01C3 376  
 01C3 377 INPUT PARAMETERS:  
 01C3 378  
 01C3 379 NONE  
 01C3 380  
 01C3 381  
 01C3 382 IMPLICIT INPUTS:  
 01C3 383  
 01C3 384 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES  
 01C3 385 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.  
 01C3 386 FOR X = 1,2,3,4,5 :  
 01C3 387 CONDX\_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX  
 01C3 388 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE  
 01C3 389 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM  
 01C3 390 FOR CONDX\_E.  
 01C3 391  
 01C3 392 OUTPUT PARAMETERS:  
 01C3 393  
 01C3 394 NONE  
 01C3 395  
 01C3 396 IMPLICIT OUTPUTS:  
 01C3 397  
 01C3 398 VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,  
 01C3 399 IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING  
 01C3 400 ALL WERE SUCCESSFUL. IF AN ERROR IS DISCOVERED, RETURN IS VIA  
 01C3 401 AN ERR\_EXIT OR SS\_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED  
 01C3 402 ERRORS.  
 01C3 403  
 01C3 404 COMPLETION CODES:  
 01C3 405  
 01C3 406 EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.  
 01C3 407  
 01C3 408 SIDE EFFECTS:  
 01C3 409  
 01C3 410 SS\_CHECK AND ERR\_EXIT MACROS CAUSE PREMATURE EXIT  
 01C3 411 (VIA RSB) IF ERROR ENCOUNTERED.  
 01C3 412

01C3 413 :--  
 01C3 414  
 01C3 415  
 01C3 416  
 00000000'EF 95 01C3 417 VERIFY:::  
 03 13 01C9 418 TSTB CFLAG : SHOULD CONDITIONS BE PRINTED ?  
 FEF3 30 01CB 419 BEQL 58 : NO -- CONTINUE  
 01CE 420 BSBW FORM\_CONDS : YES -- FMT & PRINT ALL CONDS FOR THIS T.C.  
 00000096'EF 00000000'EF B2 01CE 421 58:  
 00000126'EF43 00000000'EF D1 01D9 422 MCOMM TESTNUM, COMTN : GET A LOGICAL NAME UNIQUE TO THIS T.C.  
 03 12 01E5 423 CMPL #SSS\_NORMAL,COND2\_E[R3] : IS NORMAL EXPECTED ?  
 0073 31 01E7 424 BNEQU 258 : NO -- CONTINUE  
 01EA 425 BRW 208 : YES -- GO RIGHT TO SUBJECT SERVICE  
 01EA 426 258:  
 020D 427 MODE TO,10\$,KRLN : TO KERNEL FOR EXTRA CRELOG  
 022E 428 SCRELOG\_S TBLFLG[R2],LOGNAME,EQLNAM,ACMODE[R4]  
 022E 429 : CREATE "ALREADY EXISTENT" LOGICAL NAME  
 022F 430 MODE FROM,10\$ : BACK TO USER MODE  
 025D 431 SS\_CHECK NORMAL : CHECK FOR NORMAL STATUS CODE  
 025D 432 208:  
 0280 433 MODE TO,30\$,KRLN : GET KERNEL FOR SUBJECT SERVICE  
 0280 434 :  
 0280 435 \*\*\*\*\* SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE \*\*\*\*\*  
 0280 436 :  
 02A1 437 SCRELOG\_S TBLFLG[R2],LOGNAME,EQLNAM,ACMODE[R4]  
 00000000'EF 00000126'EF43 00 02A2 438 MODE FROM,30\$ : BACK TO USER  
 00000000'EF 50 D1 02AE 439 MOVL COND2\_E[R3],EXPV : LOAD UP EXPECTED STATUS CODE  
 00000000'EF 56 13 02B5 440 CMPL R0, EXPV : CODE RECEIVED = CODE EXPECTED ?  
 00000000'EF 50 DO 02B7 441 BEQLU 40\$ : YES -- DO SOME MORE VERIFYING  
 02BE 442 MOVL R0, RECV : GET REC'D STAT CODE INTO STORAGE  
 030D 443 ERR\_EXIT LONG,<INCORRECT STATUS CODE RETURNED FROM CRELOG>  
 030D 444 : PRINT ERROR MSG & EXIT SUBROUTINE  
 030D 445 408:  
 00000000'EF 000000D5'EF42 00 0334 446 STRNLOG S LOGNAME,RSLLEN\_TLN,RSLBUF\_TLN,ACMODE\_TLN  
 00000000'EF 00000094'EF 91 0362 447 SS\_CHECK NORMAL : CHECK FOR NORMAL STATUS CODE  
 00000000'EF 00000094'EF 54 13 036E 448 MOVL TBLFLG[R2],EXPV : GET EXPECTED VALUE OUT OF COND TABLE  
 00000000'EF 00000094'EF 90 0379 449 CMPB TABLE\_TLN,EXPV : DID TRNLOG RETURN CORRECT TABLE FLAG VAL ?  
 03CF 450 BEQLU 60\$ : YES -- MORE VERIFYING  
 03CF 451 MOVB TABLE\_TLN,RECV : PROCESS ERROR & EXIT ...  
 03CF 452 ERR\_EXIT BYTE,<LOGICAL NAME CREATED FOR WRONG TABLE>  
 02 000000D5'EF42 D1 03CF 453 608:  
 03 13 03D7 454 CMPL TBLFLG[R2],#LOGSC\_PROCESS : IS LOG NAME IN PROCESS TABLE ?  
 0073 31 03D9 455 BEQLU 658 : YES -- CONTINUE  
 03DC 456 BRW 70\$ : NO -- BYPASS ACMODE TEST  
 00000000'EF 0000015D'EF44 00 03DC 457 658:  
 00000000'EF 00000095'EF 91 03EB 458 MOVL ACMODE[R4],EXPV : YES -- GET EXP ACMODE OUT OF COND TABLE  
 00000000'EF 00000095'EF 5A 13 03F3 459 CMPB ACMODE\_TLN,EXPV : DID TRNLOG RETURN CORRECT ACCESS MODE ?  
 00000000'EF 00000095'EF 90 03F5 460 BEQLU 70\$ : YES -- KEEP GOING  
 0400 461 MOVB ACMODE\_TLN,RECV : NO -- ESTAB RECV & TAKE ERROR EXIT ...  
 0400 462 ERR\_EXIT BYTE,<LOGICAL NAME CREATED FOR WRONG >, -  
 0400 463 <ACCESS MODE>  
 00000051'EF 00000008'EF B1 044F 464 708:  
 03 12 045A 465 CMPW RSLLEN\_TLN,EQLNAM : DID TRNLOG RETURN CORRECT STRING LENGTH ?  
 0068 31 045C 466 BNEQU 758 : NO -- CONTINUE  
 045F 467 BRW 80\$ : YES -- DO ANOTHER VERIFY  
 00000000'EF 00000051'EF B0 045F 468 758:  
 045F 469 MOVW EQLNAM,EXPV : LOAD UP EXPECTED AND

SATSSS30  
V04-000

SATS SYSTEM SERVICE TESTS SCRELOG, SDELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00  
VERIFY 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1 Page 14 (1)

SA  
VO

00000000'EF 00000008'EF B0 046A 470  
0475 471  
0475 472  
04C7 473 80\$: MOVW RSLLEN\_TLN,RECV ; RECEIVED VALUES, THEN EXIT  
ERR\_EXIT WORD,ZINCORRECT LENGTH CREATED FOR >, -  
<EQUIVALENCE NAME>  
0000000E'FF 0000'8F 88 04C7 474  
00000008'EF 29 04CB 475 PUSHR #CMPC\_SAV ; SAVE SOME REGS USED BY CMPC  
CMPC RSLLEN\_TLN,RSLSBUF\_TLN+4,0EQLNAM+4  
00000055'FF 04D6 04DB 476  
0403 12 04DF 477 POPR #CMPC\_SAV ; TRANSLATED STRING MATCH THAT CREATED ?  
0064 31 04E1 479 BNEQU 85\$ ; RESTORE SOME REGS USED BY CMPC  
BRW VERIFYX ; NO -- CONTINUE  
; YES -- EVERYTHING VERIFIES  
00000000'EF 00000051'EF 7D 04E4 481  
00000000'EF 0000000A'EF 7D 04EF 482 MOVQ EQLNAM,EXPV ; LOAD UP EXPECTED AND  
04FA 483 MOVQ RSLSBUF\_TLN,RECV ; RECEIVED VALUES, THEN EXIT  
04FA 484 ERR\_EXIT DESC,ZINCORRECT EQUIVALENCE NAME >, -  
0548 485 VERIFYX: <STRING CREATED>  
05 0548 486 RSB ; RETURN TO CALLER

```

0549 488 .SBTTL VFY_CLEANUP
0549 489 ++
0549 490 FUNCTIONAL DESCRIPTION:
0549 491
0549 492 VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE
0549 493 EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST
0549 494 ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN
0549 495 ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR EXIT
0549 496 ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS: THIS IS REQUIRED
0549 497 IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING,
0549 498 WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN
0549 499 POSSIBLY DISCOVERING A SECOND ERROR.

0549 500
0549 501 CALLING SEQUENCE:
0549 502
0549 503 BSBW VFY_CLEANUP
0549 504
0549 505 INPUT PARAMETERS:
0549 506
0549 507 NONE
0549 508
0549 509 IMPLICIT INPUTS:
0549 510
0549 511 R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
0549 512 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
0549 513 FOR X = 1,2,3,4,5 :
0549 514 CONDX_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX
0549 515 TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
0549 516 ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
0549 517 FOR CONDX_E.

0549 518
0549 519 OUTPUT PARAMETERS:
0549 520
0549 521 NONE
0549 522
0549 523 IMPLICIT OUTPUTS:
0549 524
0549 525 NONE
0549 526
0549 527 COMPLETION CODES:
0549 528
0549 529 EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
0549 530
0549 531 SIDE EFFECTS:
0549 532
0549 533 SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT
0549 534 (VIA RSB) IF ERROR ENCOUNTERED.
0549 535
0549 536 --
0549 537
0549 538
0549 539
0549 540 VFY_CLEANUP:: MODE TO,10$,KRNL : KERNEL MODE
0549 541 $DELLOG_S {BLFLG[R2],LOGNAM,ACMODE[R4]} : UNDO SUBJECT SERVICE
0560 542 MODE FROM,10$ : BACK TO USER MODE
0587 543 SS_CHECK NORMAL : CHECK NORMAL STATUS CODE
0588 544

```

SATSSS30  
V04-000

L<sup>7</sup>  
SATS SYSTEM SERVICE TESTS SCRELOG, SDELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00  
VFY\_CLEANUP 5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR;1 Page 16  
(1)

05B6	545	MODE TO,20\$,KRLN	: kernel mode
05D9	546	\$DELLOG_S TBLFLG[R2],LOGNAM,ACMODE[R4]	; check for actual delete
05F4	547	MODE FROM,20\$	: back to user mode
05F5	548	SS CHECK NOLOGNAM	: check correct status return
05 0623	549	RSB	: RETURN TO CALLER
0624	550	.END	

SA  
VO

20  
4E  
55  
52  
54  
54

SSSS	= 00000504	R	04	EQLNAM	= 00000051	R	02
SSSCHARS	= 00000029			EXPV	*****	X	04
SSSCHARS1	= 00000006			FAO_DESC	*****	X	04
SSSCHARS2	= 00000004			FAO_LEN	*****	X	04
SSSCHARS3	= 00000005			FORM_CONDS	000000C1	RG	04
SSSCHARS4	= 00000004			FORM_CONDSX	000001C2	R	04
SSSCHARS5	= 00000000			LOGSC_GROUP	= 00000001		
SSSCOND_A	= 00000003			LOGSC_PROCESS	= 00000002		
SSSSTRINGS	= 00000001			LOGSC_SYSTEM	= 00000000		
SSSSTRINGS2	= 00000005			LOGNAM	00000059	R	02
SST1	= 00000000			LONG	= 00000004	G	02
SST2	= 00000004			MOD_MSG_CODE	*****	X	04
ACMODE	0000015D	R	03	MOD_MSG_PRINT	*****	X	04
ACMODE_TLN	00000095	R	03	MSGT_INP_CTL	00000019	R	02
BYTE	= 00000001	G		MSG3_ERR_CTL	00000039	RG	02
CFLAG	*****	X	04	MSG_A	*****	X	04
CHMRTN	*****	X	04	MSG_B	*****	X	04
CHM_CONT	*****	X	04	MSG_CTXT	*****	X	04
CMPC_SAV	*****	X	04	MSG_DATA1	*****	X	04
COMP_SC	*****	X	04	NOTARG	= 00000000	G	
COMTN	00000096	R	03	NULL	= 00000014	G	
COND1	000000B7	RG	04	OUTPUT_MSG	*****	X	04
COND1_C	= 00000004			PCV	*****	X	04
COND1_CLEANUP	000000B8	RG	04	PHD\$Q_PRIVMSK	= 00000000		
COND1_E	000000D5	R	03	PRIVMASK	00000000	R	03
COND1_H	000000A1	RG	03	PRIV_ARGS	= 00000002		
COND1_T	0000009A	R	03	PROCESS_ERR	*****	X	04
COND1_TAB	000000A2	R	03	PSL\$C_EXEC	= 00000001		
COND2	000000B9	RG	04	PSL\$C_KERNEL	= 00000000		
COND2_C	= 00000000			PSL\$C_SUPER	= 00000002		
COND2_CLEANUP	000000BA	RG	04	PSL\$C_USER	= 00000003		
COND2_E	00000126	R	03	QUAD	= 00000008	G	
COND2_H	00000101	RG	03	RECV	*****	X	04
COND2_T	000000E1	R	03	REST_REGS	*****	X	04
COND2_TAB	00000102	R	03	RSLBOF_TLN	0000000A	R	03
COND3	000000B8	RG	04	RSLLEN_TLN	00000008	R	03
COND3_C	= 00000004			SAVE_REGS	*****	X	04
COND3_CLEANUP	000000BC	RG	04	SSS_NOLOGNAM	*****	X	04
COND3_E	0000015D	R	03	SSS_NORMAL	*****	X	03
COND3_H	00000135	RG	03	SSS_SUPERSEDE	*****	X	03
COND3_T	0000012E	R	03	SUCCESS	*****	X	04
COND3_TAB	00000136	R	03	SYSSCMKRL	*****	GX	04
COND4	000000BD	RG	04	SYSSCRELOG	*****	GX	04
COND4_C	= 00000014			SYSSDELLOG	*****	GX	04
COND4_CLEANUP	000000BE	RG	04	SYSSFAO	*****	X	04
COND4_H	0000016D	RG	03	SYSSSETPRN	*****	GX	04
COND4_T	0000016D	R	03	SYSSSETPRV	*****	GX	04
COND4_TAB	0000016D	R	03	SYSTRNLOG	*****	GX	04
COND5	000000BF	RG	04	TABLE_TLN	00000094	R	03
COND5_C	= 00000014			TBLFLG	000000D5	R	03
COND5_CLEANUP	000000C0	RG	04	TESTNUM	*****	X	02
COND5_H	0000016E	RG	03	TEST_MOD_NAME	00000000	RG	02
COND5_T	0000016E	R	03	TEST_MOD_NAME_D	00000009	R	02
COND5_TAB	0000016E	R	03	TEST_MOD_SUCC	*****	X	04
CTL\$GE_PHD	*****	X	04	TMD_ADDR	*****	X	04
DESC	= 00000010	G		TM_CLEANUP	000000B3	RG	04
EFLAG	*****	X	04	TM_SETUP	00000000	RG	04

## SATSSS30 Symbol table

SATS SYSTEM SERVICE TESTS N 7 SCRELOG, SDELL 16-SEP-1984 00:49:54 VAX/VMS Macro V04-00  
5-SEP-1984 04:30:27 [UETPSY.SRC]SATSSS30.MAR:1 Page 18 (1)

VERIFY  
VERIFYX  
Vfy\_Cleanup  
WORD  
WRITE\_MSG2

=	000001C3	RG	04
	00000548	R	04
	00000549	RG	04
	00000002	G	
	*****	X	04

+-----+  
! Psect synopsis !  
+-----+

PSECT name

### Allocation PSECT No. Attributes

ABS	00000000	( 0.)	00	( 0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE
\$ABSS	00000000	( 0.)	01	( 1.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE
RODATA	00000061	( 97.)	02	( 2.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	NOWRT	NOVEC	LONG
RWDATA	0000016F	( 367.)	03	( 3.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	NOVEC	LONG
SATSSS30	00000624	( 1572.)	04	( 4.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE

## Performance indicators

## Phase

Page faults CPU Time Elapsed Time

Initialization	29	00:00:00.07	00:00:00.26
Command processing	107	00:00:00.68	00:00:03.12
Pass 1	265	00:00:07.76	00:00:13.71
Symbol table sort	0	00:00:00.54	00:00:00.58
Pass 2	118	00:00:02.00	00:00:02.44
Symbol table output	15	00:00:00.09	00:00:00.13
Psect synopsis output	2	00:00:00.03	00:00:00.04
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	538	00:00:11.20	00:00:20.29

The working set limit was 1350 pages.

40009 bytes (79 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 361 non-local and 47 local symbols.

550 source lines were read in Pass 1, producing 25 object records in Pass 2.

37 pages of virtual memory were used to define 28 macros.

## Macro library statistics

### Macro Library name

## Macros defined

\$255\$DUA28:[SHRLIB]UETP.MLB;1  
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1  
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2  
TOTALS (all Libraries)

12

687 GETS were required to define 25 macros.

**There were no errors, warnings or information messages.**

**MACRO/LIS=LIS\$:\$ATSSS30/OBJ=OBJ\$:\$ATSSS30 MSRC\$:\$ATSSS30/UPDATE=(ENH\$:\$ATSSS30)+EXECMLS/LIB+SHRLIB\$:UETP/LIB**

0422 AH-BT13A-SE  
VAX/VMS V4.0

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